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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,918	12/29/2005	David Roberts McMurtry	122070	7252
25944 OLIFF & BERI	7590 03/27/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	50	BRAINARD, TIMOTHY A		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			3662	
			MAIL DATE	DELIVERY MODE
			03/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/518,918	MCMURTRY ET AL.	
Office Action Summary	Examiner	Art Unit	
	TIMOTHY A. BRAINARD	3662	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tire I will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 29 L This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 26-42 and 44-46 is/are pending in the 4a) Of the above claim(s) is/are withdrases 5) Claim(s) 26-42 is/are allowed. 6) Claim(s) 44-46 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers	or election requirement.		
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 23 December 2004 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	are: a)⊠ accepted or b)⊡ objected or biological objected drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 	nts have been received. nts have been received in Applicat prity documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 44-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beckworth Jr. (US 4939678) in view of Chen (US 5739907). Beckworth teaches a method for measuring deviation in the movement of a first body with respect to a second body, using a transmitter unit which outputs at least one light beam and an optic unit, wherein one of the transmitter unit and the optic unit is provided with one or more detector to detect one or more light beam transmitted to or reflected from the optic unit, the method comprising the steps of: mounting the transmitter unit on the first body; mounting the optic unit on the second body; determining the position of the light beam on the detector (col 6, lines 21-64), (claim 45) the transmitter unit is mounted on an adjustable base unit which is mounted on the first body and wherein the position of the transmitter unit is adjusted by adjusting the adjustable base unit (col 1, lines 22-36), (claim 46) the feedback is used to maintain the light beam on a predetermined part of the detector (col 6, lines 21-64). Beckworth does not teach at least one of a position of the transmitter unit and a movement vector of the second body in response to feedback from the determined position of the light beam on the detector in order to maintain the light beam on the detector during relative movement of the first and second bodies.

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Chen teaches adjusting automatically at least one of a position of the transmitter unit and a movement vector of the second body in response to feedback from the determined position of the light beam on the detector in order to maintain the light beam on the detector during relative movement of the first and second bodies (col 3, lines 3-30). It would have been obvious to modify Beckworth to include automatically at least one of a position of the transmitter unit and a movement vector of the second body in response to feedback from the determined position of the light beam on the detector in order to maintain the light beam on the detector during relative movement of the first and second bodies because it would keep the apparatus constantly aligned.

Allowable Subject Matter

- 3. Claims 26-42 are allowed.
- 4. The following is a statement of reasons for the indication of allowable subject matter: Beckworth does not teach nor make obvious the displacement of the two or more light beams incident on the at least one detector enables measurement of straightness error in at least one plane and at least one of pitch and yaw during said movement of the first body relative to the second body, and wherein the output of one detector is used in the measurement of both: i) at least one of straightness and roll; and ii) at least one of pitch and yaw.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY A. BRAINARD whose telephone number is (571) 272-2132. The examiner can normally be reached on Monday - Friday 8:00 - 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. A. B./ Examiner, Art Unit 3662 /Thomas H. Tarcza/

Supervisory Patent Examiner, Art Unit 3662